

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

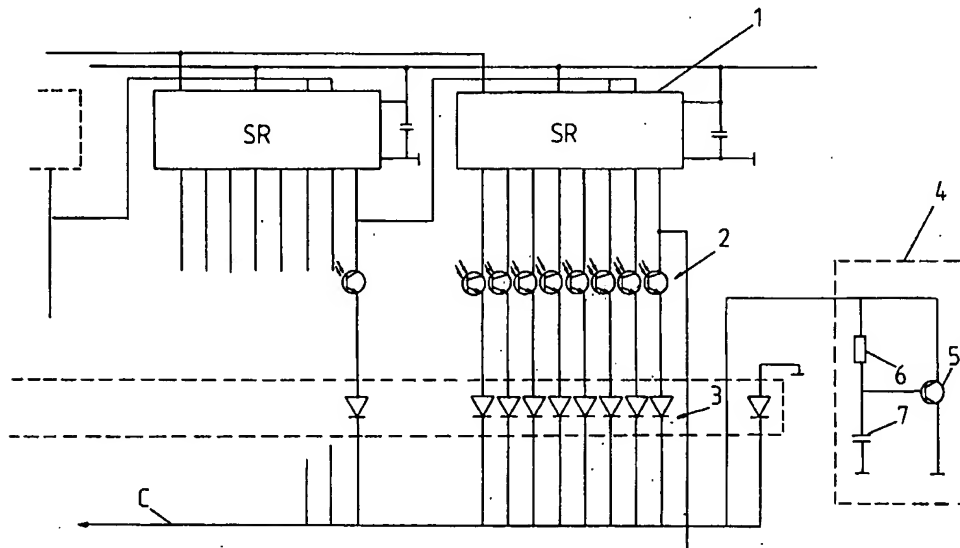
0 426 469 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **90311967.5**(51) Int. Cl.⁵: **G06K 11/08**(22) Date of filing: **01.11.90**(30) Priority: **03.11.89 FI 895243**(43) Date of publication of application:
08.05.91 Bulletin 91/19(64) Designated Contracting States:
AT BE CH DE DK ES FR GB GR IT LI LU NL SE(88) Date of deferred publication of the search report:
02.09.92 Bulletin 92/36(71) Applicant: **HEIKKI MARTTILA OY**
Vasarakatu 24**SF-40320 Jyväskylä(FI)**(72) Inventor: **Heikkinen, Karl**
Pukklmäenkatu 6 B 7
SF-44100 Äänekoski(FI)
Inventor: **Savolainen, Juha**
Sepänkatu 11 C 3
SF-41500 Hankasalmi(FI)(74) Representative: **Barlow, Roy James et al**
J.A. KEMP & CO. 14, South Square, Gray's
Inn
London WC1R 5LX(GB)(54) **Circuitry for compensating for the effect of light on the operation of infrared-sensitive phototransistors in a contact display panel.**

(57) The invention relates to a circuitry for compensating the effect of external light on infrared-sensitive phototransistors (2) in a contact display panel, the phototransistors being coupled via diodes (3) to a common line (c). The compensation circuitry

is a voltage-dependent resistor (4) between the common line (c) and the ground of the circuit, the resistance value of the resistor decreasing as the direct-voltage level of the line (c) rises. The resistor (4) is preferably a transistor circuit.

**EP 0 426 469 A3**



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 90 31 1967

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US-A-3 764 813 (FRANK JOHN CLEMENT) * column 9, line 36 - line 45; figures 1,2 * ---	1,4	G06K11/08
A	US-A-4 243 879 (ARTHUR B. CARROLL ET AL) * column 1, line 41 - line 61; figures 1,10,12 * * column 3, line 20 - column 10, line 54 * ---	1,4	
A	US-A-4 801 797 (JUNICHI OHOUCHI ET AL) * column 2, line 17 - column 3, line 41 * ---	1,4	
A	US-A-4 855 590 (MILAN BURES ET AL) * column 6, line 57 - column 8, line 20; figure 4 * ---	1,4	
A	DE-A-2 432 520 (SIEMENS AG) * claims 1-5; figure 1 * -----	1,2	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G06K G08B G08C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18 JUNE 1992	Examiner ALONSO Y GOICOLEA L.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons * : member of the same patent family, corresponding document			